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(54) **MODULAR DRONE AND METHODS FOR USE**

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(57) **ABSTRACT**

Various exemplary embodiments relate to a drone. The drone may include: a navigation unit configured to determine the location of the drone and navigate the drone to designated locations; a radio frequency identification (RFID) reader configured to read RFID tag information from RFID tags; and a wireless network transceiver configured to periodically transmit the location of the drone and RFID tag information to an inventory management system. Various exemplary embodiments relate to a method performed by a drone. The method may include: receiving navigation path information; navigating the drone along the navigation path based on satellite location signals; determining current position information based on the satellite location signals; reading RFID tag information from a first RFID tag; and transmitting the RFID tag information and the current position information via a wireless client to a central computing system.

